



HCC 2000

AUTOMATED WATER CHEMISTRY CONTROLLER

Powerful, affordable total pH and ORP control system with or without peristaltic feed pumps



Perfect for swimming pools, spas, and water features, the HCC 2000 is a powerful yet affordable microprocessor-based pH and ORP water chemistry controller. The controller features proportional feed to ensure precise water chemistry maintenance, and operates using the Oxidation-Reduction Potential (ORP) method of water analysis to ensure rapid deactivation of such waterborne pathogens as E. coli in swimming pool water.

The HCC 2000 Complete Package provides the ultimate one-stop-shop experience, one unit pre-configured with everything required to make water chemistry management simple, convenient, and affordable. This package includes the HCC 2000 controller, flow cell, and flow sensor, all now pre-mounted on a PVC backboard with peristaltic feed pumps for pH and chlorine adjustment.

- Advanced microprocessor-based design technology
- Comes with chemical feed equipment compatible with all existing chemical feed systems; chlorine, bromine, electronic chlorine (salt) generators, acid and CO₂
- Simple-to-operate user interface with easy-to-read LED display
- Complete package offers a total chemical automation system for easy installation and ultimate convenience
- NSF/ANSI Standard 50 (HCC 2000 only)

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FEATURES



- Controller, flow cell, flow sensor, two chemical feed pumps*, and chemical sensor pre-mounted on a 16" x 21" PVC backboard for fast and simple installation
- Fully programmable digital microprocessor-based technology with simple user interface and easy-to-read display of chemical readings or status
- Heavy duty, commercial-grade, pH and ORP sensors with unparalleled performance and longevity
- *Two integrated, factory wired chemical feed pumps allow for automatic chemical delivery

* On complete package model

Next Generation in Sensor Technology

- Poly-Pro® solid polymer reference technology matched with patented porous Teflon® fluid junction for high performance longevity and simple maintenance
- Ultra high purity Platinum ORP sensing element
- Durable injection molded ½" NPT body provide 4 times storage capacity of standard electrodes



Power, Performance and Simplicity

- Fully programmable microprocessor-based technology control with pH and ORP set points and alarm settings
- Programmable pH and ORP overfeed times provide extra layer of protection against overfeed chemicals
- pH priority option brings pH within 0.2 pH of set point before feeding chlorine
- Communications capabilities via standard RS232 serial interface



Less Maintenance and High Durability

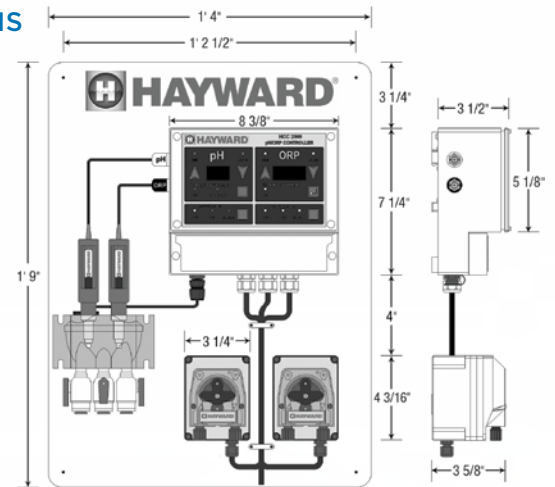
- Nema 4X waterproof polypropylene housing-shock proof and resistant to aggressive chemicals
- Easy maintenance takes seconds to replace peristaltic feed tube
- Fixed speed for reliable and accurate dosing



TECHNICAL SPECIFICATIONS

| Description | Specifications | |
|--------------------------------------|--|--|
| Part Number | HCC2000 | HCC2000-CP |
| Description | HCC 2000 Water Chemistry Controller | HCC 2000 Complete Water Chemistry Controller Package |
| Carton Quantity | 1 | 1 |
| Carton Weight (lbs.) | 11.0 | 20.0 |
| Enclosure | 7.25" x 8.25" x 3.5" glass-filled polycarbonate | |
| Interface | UV Protected Lexan membrane switch | |
| Certifications | UL94-5V (UL746 C5) NEMA type 1, 4, 4X, 6, 12, 13 NSF / ANSI Standard 50 (HCC2000 Only) | |
| Display | Light-emitting diode | |
| Display Range | pH 0.0 - 9.9 / ORP 5 - 995 mV | |
| Flow Cell | Injection molded flow cell with integral baffles | |
| Backboard | CNC machined and beveled PVC | |
| Flow Sensor | Float-style magnetic flow switch | |
| Power Input | USA - 10 Amp, 120 VAC 60 Hz Intl. - 5 Amp, 240 VAC 50/60 Hz | |
| Output Power | pH relay - 4 Amp, 120/240 VAC | |
| Auxiliary Relays | AUX pH relay - dry contacts - 4 Amp | |
| Communications | RS232 serial interface | |
| Alarm Contact Relay | Remote alarm - dry contact relay - 4 Amp | |
| Mode Selections | pH and ORP automatic / off / manual direct feed pH feed - acid or base ORP mode - auto / set pH mode - auto / set / calibrate | |
| Warranty | Controller 1-year comprehensive warranty Sensors 1-year comprehensive warranty | |
| Pump Type | Fixed output | |
| Pump Power Supply | 24-240 VAC | |
| Pump Frequency | 50/60 Hz | |
| Pump Power Consumption | 3.5W | |
| Pump Tube | Santoprene | |
| Pump GPD (2 tubes supplied per pump) | 6.34GPD and 31.68GPD | |
| Pump Max Back Pressure (PSI) | 22 | |
| NEMA Rating | NEMA 4X | |
| Pump Enclosure | 4.2" x 3.2" x 3.6" | |
| Pump Certifications | ETL/CE | |
| Pump Warranty | 1-year warranty | |

DIMENSIONS



OPTIONAL ACCESSORIES

For Total Chemical Automation



Chemical Feed Pump
(2 pumps included as standard with HCC 2000 Complete Package)



Chlorine dispensing for sanitizer control

| Part Number | Description | Carton Quantity | Carton Weight (lbs.) |
|-------------|---|-----------------|----------------------|
| AC003 | Residential CO ₂ pH Control System | 1 | 5.0 |
| AC004 | Standard CO ₂ System | 1 | 7.0 |
| AC035 | Peristaltic feed pump | 1 | 5.0 |
| HCSC60 | Saline C [®] 6.0 Salt Chlorine Generator | 1 | 50.0 |